

CLAIMS

1. An installation device (1) for connecting shell-shaped longitudinal segments (910) of a jacket body (9) that forms a large component that extends longitudinally, that determines a hollow space (92) with an open face, and that is closed in particular on the circumferential side, by placement of at least one longitudinal connection seam (97) on the body jacket (91), said installation device (1) comprising at least one tool pair (3) which comprises an inner tool (31) that is movably guided within the hollow space (92) in longitudinal direction (L) of the jacket body (9), and further comprises an outer tool (32) that is movably guided outside the hollow space (92) in longitudinal direction (L) of the jacket body (9), wherein for the purpose of producing the connection seam (97) the tools (31, 32) act together as a pair (3) in the direction across the longitudinal direction (L) of the body, **wherein** the installation device (1) comprises a carrier pair (2) which is formed by an inner guide carrier (21) that extends in longitudinal direction (L) of the body and movably guides the inner tool (31) within the hollow space (92) of the jacket body (9), and further comprises an outer guide carrier (22) that extends outside the jacket body (9) in longitudinal direction (L) of the body and movably guides the outer tool (32), wherein each guide carrier (21, 22) is rotatably held according to at least one longitudinal rotary axis (500, 501, 502) oriented by an outer longitudinal contour (980, 990) of the jacket body (9), as well as being slidably held and fastenable in at least two separate spatial directions (Y, Z) that extend across the longitudinal direction (L) of the body, wherein the tools (31, 32), which interact for producing the connection seam (97) selectively take up different positions on the longitudinal circumference of the jacket body (9) as a pair.
2. The installation device of claim 1, **wherein** at least one tool pair (3) is designed for establishing a riveted connection.
3. The installation device of claim 2, **wherein** the tool pair (3) comprises riveting tools (31, 32) that place rivets into the jacket body (9) free of any force introduction.

4. The installation device of any one of claims 1 to 3, **wherein** the installation device (1) for the placement of at least one longitudinal connection seam (97) is designed to produce a jacket body (9) which at least along one longitudinal section (98) is at least approximately cylindrical in shape.
5. The installation device of any one of claims 1 to 4, **wherein** the device for the placement of at least one longitudinal connection seam (97) is designed to produce a jacket body (9) which at least along one longitudinal section (99), in particular an end section, is conical.
6. The installation device of any one of claims 1 to 5, **wherein** each tool guide carrier (31, 32) is rotatably displaceable on associated longitudinal rotary axes (500, 501, 502) and is translatable displaceable to and fro manner in two separate transverse directions (Y, Z) that are perpendicular in relation to each other, wherein preferably one transverse direction (Y) is determined by a horizontal plane (X-Y) while the other transverse plane is determined by a vertical direction (Z) that is perpendicular in relation to the aforementioned plane.
7. The installation device of any one of claims 1 to 6, **wherein** the installation device (11) comprises a carrier frame (4) that extends in longitudinal direction (L), which carrier frame (4) forms the carrier pair (2) and is rotatably held on a bearing axis that preferably coincides with a longitudinal symmetry axis (40) of the carrier frame (4), which axis forms a mutual longitudinal rotary axis (500) for the two guide carriers (21, 22).
8. The installation device of claim 7, **wherein** the carrier frame (4) at its faces comprises the frame webs (43, 44) that connect the two guide carriers (21, 22; 41, 42) of a carrier pair (2), which frame webs (43, 44) are rotatably held by at least one longitudinal axis (40) of the carrier frame (4), wherein on at least one frame end the frame web (43) is detachably connected to the frame guide carriers (41, 42) and that said frame web (43) in the detached state can be moved to a position that provides access to a front space in front of the inner guide carrier (41).

9. The installation device of claim 8, **wherein** the carrier frame is, at its end that faces a frame end that comprises a fully detachable frame web (43), provided with a weight mass (45) that generates a counterbalance weight so as to hold the carrier frame (4) in position in the state where the frame web (43) is completely separated from the frame guide carriers (41, 42).
10. The installation device of any one of claims 7 to 9, **wherein** the carrier frame (4) is held in such a way that it can be relocated as desired to at least two positions (19) in which each of the frame guide carriers (41, 42) is aligned according to the different outer longitudinal contour (980, 990) of the jacket body (9).
11. The installation device of claim 10, **wherein** the installation device (11) comprises a bearing device (51) that holds the carrier frame (4), which bearing device (51) on the frame webs (43, 44) in their direction of extension comprises curved bearing sections, as well as corresponding bearing sections that accommodate said curved bearing sections.
12. The installation device of any one of claims 7 to 11, **wherein** the installation device (11) comprises column-like mounting parts (61, 62) between which the carrier frame (4) is arranged and on which it is held so as to be rotatable on a longitudinal axis (40), wherein the column-like mounting parts (61, 62) in at least a first spatial direction (Y) across the longitudinal direction (L) of the jacket body (9) are arranged so as to be mutually movable and fastenable.
13. The installation device of any one of claims 7 to 12, **wherein** the column-like mounting parts (61, 62) carry rotary bearings (511) that hold the frame carrier (4) and that are adjustable in the spatial direction (Z) across the longitudinal direction (L) of the jacket body (9) as far as the column height of the mounting parts (61, 62) is concerned.
14. The installation device of any one of claims 1 to 6, **wherein** the installation device (12) comprises an inner portal device (7) that holds at least one inner guide carrier (21), and further comprises at least one outer portal device (8) that holds at least one outer guide carrier (22), wherein the inner guide carrier (21) is rotatably adjustable on a longitudinal rotary axis (501) of the inner

portal device (7), while the outer guide carrier (22) is rotatably adjustable on a longitudinal rotary axis (502) of the outer portal device (8).

15. The installation device of claim 14, **wherein** at least one portal device (7, 8) comprises a portal carrier (71, 81), which is formed by at least one inner longitudinal section (711, 811) that forms a guide carrier (21, 22), as well as by bearing sections (712, 713; 812, 813) at its ends.
16. The installation device of claim 14 or 15, **wherein** in each case the inner portal device (7) and the outer portal device (8) comprise two column-like mounting parts (72, 73; 82, 83) (7, 8), between which in each case the associated portal carrier (71, 81) is arranged and on which mounting parts it is held, **wherein** the column-like mounting parts (72, 73; 82, 83) of each portal device are arranged so as to be mutually movable in at least a first spatial direction (Y) across the longitudinal direction (L) of the jacket body (9) and are arranged so as to be fastenable, and carry rotary bearings (521, 522; 531, 532) which hold the portal carrier (71, 81) and are adjustable in at least one second spatial direction (Z) across the longitudinal direction (L) of the jacket body (9).
17. The installation device of claim 16, **wherein** on the column-like mounting parts (72, 73; 82, 83) of the inner portal carrier device (7) and of the outer portal carrier device (8) height-adjustable and arrestable support bearings (76, 86) for the portal carriers (71, 81) are arranged in such a way that said portal carriers (71, 81) in parallel position in relation to each other can selectively be moved to at least two positions in which they are aligned according to the varying outside longitudinal contour (980, 990) of the jacket body (9).
18. The installation device of any one of claims 14 to 17, **wherein** the inner portal device (7) comprises column-like mounting parts (72, 73) on which the inner portal carrier (71) is detachably held in such a way that in the detached state at least one mounting part (73) can be moved to a position that provides access to a front space in front of the inner portal carrier (71).
19. The installation device of claim 18, **wherein** the inner portal device (7) is pivotably held to a first column-like mounting part (72), on which the inner

portal carrier (71) is pivotably held in the direction of the column height, as well as being held to a second column-like mounting part (73) on which for pivoted lifting the inner portal carrier (71) is liftably held in order to release the second column-like mounting part (73) for the process.

20. The installation device of claim 19, **wherein** at its pivotably held end the outer portal carrier (71) comprises a weight mass (79) which generates a lever weight that lifts the other end of the inner portal carrier (71).